BRUHAT BANGALORE MAHANAGARA PALIKE

Project: Improvements to Drains and RCC Culverts at Hegadenagar 9th Cross to 13t Cross in Ward No 06 Byatarayanapura Sub Division

Construction Cost: 10000000.00

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.133, I.No.19.1 of PW, P&IWTD SR 2016-17)								
	Desilt	Cum							
	Hegde Nagar								
	1st Main To 2nd Main								
	1st Cross		2	186.00	0.45	0.50	83.70		
	2nd Cross		2	192.00	0.45	0.50	86.40		
	3rd Cross		2	194.00	0.45	0.50	87.30		
	4th Cross		1	200.00	0.45	0.50	45.00		
	5th Cross		1	202.00	0.45	0.50	45.45		
	6th Cross		2	206.00	0.45	0.50	92.70		
	7th Cross		2	212.00	0.45	0.50	95.40		
	8th Cross		2	218.00	0.45	0.45	88.29		
	9th Cross		2	225.00	0.45	0.45	91.13		
	10th Cross		2	228.00	0.45	0.45	92.34		
	11th Cross		2	230.00	0.45	0.45	93.15		
	12th Cross		2	225.00	0.45	0.45	91.13		
	13th Cross		2	222.00	0.45	0.45	89.91		
	14th Cross		2	220.00	0.45	0.45	89.10		
	15th Cross		2	218.00	0.45	0.45	88.29		
	2nd Main								
	5th Cross		2	233.00	0.45	0.50	104.85		
	6th Cross		2	226.00	0.45	0.45	91.53		
	8th Cross		2	32.00	0.45	0.45	12.96		
	9th Cross		2	30.00	0.45	0.45	12.15		
	10th Cross		2	30.00	0.45	0.45	12.15		
							1492.92	170.92	**255169.89**
	Basic rate	**82.00**							
	Loading and unloading with 5km lead= 68+2.5x1.28x10 =	**84.00**							
	Area Weightage 6%	**4.92**							
	Final Rate	**170.92**							
2	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.142, I.No.19.14 of PW,P&IWTD S.R 2016-17)								
	Bad Reaches	Cum							
			6	2.00	2.50	0.23	6.90		
			18	0.50	6.00	0.23	12.42		
			22	1.50	1.00	0.23	7.59		
			18	1.80	1.50	0.23	11.18		
	1st Main to 2nd Main								
	2nd Cross		1	189.00	1.00	0.23	43.47		
	3rd Cross		1	190.00	1.20	0.23	52.44		

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
	4th Cross		1	200.00	1.20	0.23	55.20		
	5th Cross		1	200.00	1.20	0.23	55.20		
	6th Cross		1	206.00	1.30	0.23	61.59		
	8th Cross		1	218.00	1.00	0.23	50.14		
	9th Cross		1	222.00	1.20	0.23	61.27		
	14th Cross		1	220.00	1.20	0.23	60.72		
	15th Cross		1	218.00	3.00	0.20	130.80		
	2nd Main								
	5th Cross		1	233.00	1.00	0.23	53.59		
	6th Cross		1	226.00	1.30	0.23	67.57		
	8th Cross		1	32.00	6.00	0.23	44.16		
	9th Cross		1	30.00	6.50	0.23	44.85		
	10th Cross		1	30.00	6.20	0.23	42.78		
							861.88	132.76	**114422.92**
	Basic rate	**46.00**							
	Loading and unloading with 5km lead= 68+2.5x1.28x10 =	**84.00**							
	Area Weightage 6%	**2.76**							
	Final Rate	**132.76**							
3	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.157, I.No.20.18 of PW,P&IWTD SR 2016-17)								
	Bad Reaches	Cum							
			6	2.00	2.50	0.23	6.90		
			18	0.50	6.00	0.23	12.42		
			22	1.50	1.00	0.23	7.59		
			18	1.80	1.50	0.23	11.18		
	1st Main to 2nd Main								
	2nd Cross		1	189.00	1.00	0.23	43.47		
	3rd Cross		1	190.00	1.20	0.23	52.44		
	4th Cross		1	200.00	1.20	0.23	55.20		
	5th Cross		1	200.00	1.20	0.23	55.20		
	6th Cross		1	206.00	1.30	0.23	61.59		
	8th Cross		1	218.00	1.00	0.23	50.14		
	9th Cross		1	222.00	1.20	0.23	61.27		
	14th Cross		1	220.00	1.20	0.23	60.72		
	2nd Main								
	5th Cross		1	233.00	1.00	0.23	53.59		
	6th Cross		1	226.00	1.30	0.23	67.57		
	8th Cross		1	32.00	6.00	0.23	44.16		
	9th Cross		1	30.00	6.50	0.23	44.85		
	10th Cross		1	30.00	6.20	0.23	42.78		
							731.08	1768.08	**1292607.93**
	Basic rate	**1668.00**							
	Area Weightage 6%	**100.08**							
	Final Rate	**1768.08**							
4	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.160, I.No.21.6 of PW,P&IWTD SR 2016-17)								
	Bad Reaches	Sqm							
			6	2.00	2.50	--	30.00		

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
			18	0.50	6.00	--	54.00		
			22	1.50	1.00	--	33.00		
			18	1.80	1.50	--	48.60		
	1st Main to 2nd Main								
	2nd Cross		1	189.00	1.00	--	189.00		
	3rd Cross		1	190.00	1.20	--	228.00		
	4th Cross		1	200.00	1.20	--	240.00		
	5th Cross		1	200.00	1.20	--	240.00		
	6th Cross		1	206.00	1.30	--	267.80		
	8th Cross		1	218.00	1.00	--	218.00		
	9th Cross		1	222.00	1.20	--	266.40		
	14th Cross		1	220.00	1.20	--	264.00		
	2nd Main								
	5th Cross		1	233.00	1.00	--	233.00		
	6th Cross		1	226.00	1.30	--	293.80		
	8th Cross		1	32.00	6.00	--	192.00		
	9th Cross		1	30.00	6.50	--	195.00		
	10th Cross		1	30.00	6.20	--	186.00		
							3178.60	27.56	**87602.22**
	Basic rate	**26.00**							
	Area Weightage 6%	**1.56**							
	Final Rate	**27.56**							
5	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.160, I.No.21.2 of PW,P&IWTD SR 2016-17)								
	Road Formation	Sqm							
	Hegde Nagar								
	1st Main To 2nd Main								
	1st Cross		1	186.00	6.60	--	1227.60		
	2nd Cross		1	192.00	6.80	--	1305.60		
	3rd Cross		1	194.00	6.60	--	1280.40		
	4th Cross		1	200.00	6.60	--	1320.00		
	5th Cross		1	202.00	6.80	--	1373.60		
	6th Cross		1	206.00	6.70	--	1380.20		
	7th Cross		1	212.00	6.50	--	1378.00		
	8th Cross		1	218.00	6.50	--	1417.00		
	9th Cross		1	225.00	6.30	--	1417.50		
	10th Cross		1	228.00	6.40	--	1459.20		
	11th Cross		1	230.00	6.40	--	1472.00		
	12th Cross		1	225.00	6.20	--	1395.00		
	13th Cross		1	222.00	6.80	--	1509.60		
	14th Cross		1	220.00	7.00	--	1540.00		
	2nd Main								
	5th Cross		1	233.00	6.60	--	1537.80		
	6th Cross		1	226.00	6.50	--	1469.00		
	8th Cross		1	32.00	6.00	--	192.00		
	9th Cross		1	30.00	6.50	--	195.00		
	10th Cross		1	30.00	6.20	--	186.00		
							23055.50	3.18	**73316.49**
	Basic rate	**3.00**							
	Area Weightage 6%	**0.18**							
	Final Rate	**3.18**							

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
6	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.160 I.No.21.7 of PW,P&IWTD SR of 2016-17)								
	For Laying BC	Sqm							
	Hegde Nagar								
	1st Main To 2nd Main								
	1st Cross		1.00	186.00	6.60	--	1227.60		
	2nd Cross		1.00	192.00	6.80	--	1305.60		
	3rd Cross		1.00	194.00	6.60	--	1280.40		
	4th Cross		1.00	200.00	6.60	--	1320.00		
	5th Cross		1.00	202.00	6.80	--	1373.60		
	6th Cross		1.00	206.00	6.70	--	1380.20		
	7th Cross		1.00	212.00	6.50	--	1378.00		
	8th Cross		1.00	218.00	6.50	--	1417.00		
	9th Cross		1.00	225.00	6.30	--	1417.50		
	10th Cross		1.00	228.00	6.40	--	1459.20		
	11th Cross		1.00	230.00	6.40	--	1472.00		
	12th Cross		1.00	225.00	6.20	--	1395.00		
	13th Cross		1.00	222.00	6.80	--	1509.60		
	14th Cross		1.00	220.00	7.00	--	1540.00		
	2nd Main								
	5th Cross		1.00	233.00	6.60	--	1537.80		
	6th Cross		1.00	226.00	6.50	--	1469.00		
	8th Cross		1.00	32.00	6.00	--	192.00		
	9th Cross		1.00	30.00	6.50	--	195.00		
	10th Cross		1.00	30.00	6.20	--	186.00		
							23055.50	11.66	**268827.13**
	Basic rate	**11.00**							
	Area Weightage 6%	**0.66**							
	Final Rate	**11.66**							
7	KSRRB M500-19. Providing and laying bituminous concrete 40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 6% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.164 of I.No.21.22.6 in PW,P&IWTD S.R 2016-17)								
	Road Formation	Cum							
	Hegde Nagar								
	1st Main To 2nd Main								
	1st Cross		1	186.00	6.60	0.04	49.10		
	2nd Cross		1	192.00	6.80	0.04	52.22		
	3rd Cross		1	194.00	6.60	0.04	51.22		
	4th Cross		1	200.00	6.60	0.04	52.80		
	5th Cross		1	202.00	6.80	0.04	54.94		
	6th Cross		1	206.00	6.70	0.04	55.21		
	7th Cross		1	212.00	6.50	0.04	55.12		
	8th Cross		1	218.00	6.50	0.04	56.68		
	9th Cross		1	225.00	6.30	0.04	56.70		
	10th Cross		1	228.00	6.40	0.04	58.37		
	11th Cross		1	230.00	6.40	0.04	58.88		
	12th Cross		1	225.00	6.20	0.04	55.80		
	13th Cross		1	222.00	6.80	0.04	60.38		
	14th Cross		1	220.00	7.00	0.04	61.60		
	2nd Main								
	5th Cross		1	233.00	6.60	0.04	61.51		
	6th Cross		1	226.00	6.50	0.04	58.76		
	8th Cross		1	32.00	6.00	0.04	7.68		

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
	th Cross		1	30.00	6.50	0.04	7.80		
	10th Cross		1	30.00	6.20	0.04	7.44		
							922.22	7083.98	6532988.04
	Basic rate	**6683.00**							
	Area Weightage 6%	**400.98**							
	Final Rate	**7083.98**							
8	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.197, I.No.24.15 of PW,P&IWTD SR 2016-17)								
	Edge line								
			2	3511.00	0.10	--	702.20		
							702.20	542.72	381097.98
	Basic rate	**512.00**							
	Area Weightage 6%	**30.72**							
	Final Rate	**542.72**							
								Total Construction Cost	**9006032.60**
9								**Tender Premium 10%**	**900603.26**
10								**Cost towards Third Party Inspection @ 1%**	**90060.33**
								Sub Total	**9996696.19**
11								**Miscellaneous and rounding off**	**3303.81**
								Total	**10000000.00**

Certificate.

1 The workspot was inspected and work is found to be necessary.
2 The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3 The rates adopted based on the PWD SR, Bangalore circle for year 2016-17.
4 The provisions made in the estimate are necessary and essential.

Assistant Engineer

Assistant Executive Engineer

Executive Engineer

ADMINISTRATIVE APPROVAL

Accorded For Rs. One Crore only

Head of A/c P-3111

Div. Ref. No. 101/17-18 Date 19/12/17

AE 19/12

EE(BTP) 19/12

Technical Sanction

Accorded For 100 lakhs only

Head of A/C P-3111

CER NO TS/469/17 Dt: 27.12.17

TA

CE (YNK)

(4)

KEY MAP – HEGDENAGAR

Masjid-e-Muzammil

Thanisandra Main Rd

Mobile Service Centre

RKH 1st Main Rd

2nd Main Rd

2nd Cross Rd

3rd Cross Rd

5th Cross Road

4th Cross Balaji Krupa Layout

6th Cross Road

7th Cross Road

8th Cross Rd

9th Cross Rd

11th Cross Rd

12th Cross Rd

13th Cross Rd

14th Cross Rd

15th Cross Rd

2nd Cross

3rd Cross

Jain Heights : Corona

1st Cross Rd

Search Google Maps

Satellite

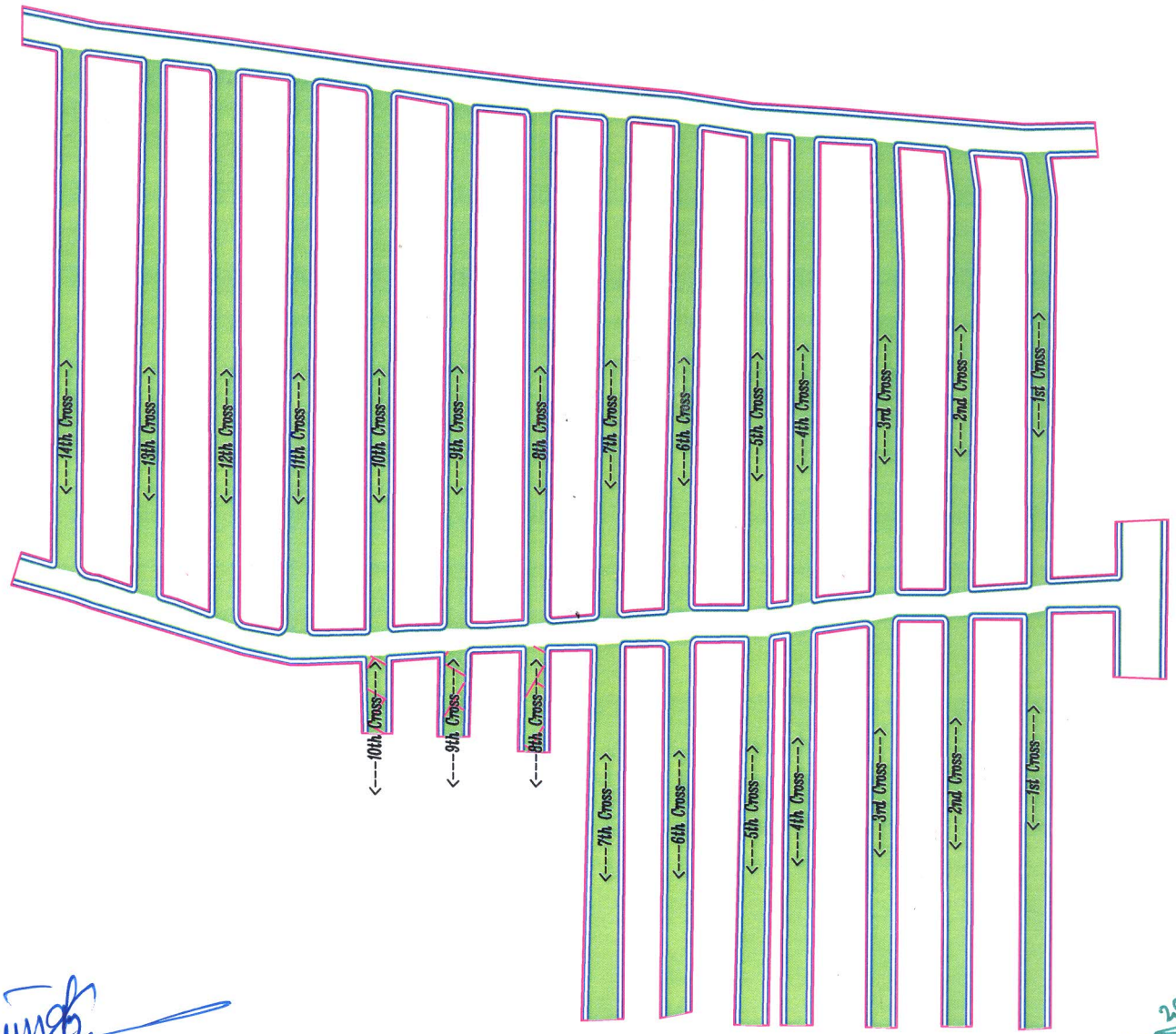
Google

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

BRUHAT BANGALORE MAHANAGARA PALIKE

nd RCC Culverts at Hegadenagar 9th Cross to 13t Cross in Ward No 06 E



ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

DATE	No. OF PRINTS	PRINTS ISSUED TO	SIGN

DATE	REVISION	DESCRIPTIONS	SIGN

LEGEND:-

ASPHALT ROAD — BC

CC ROAD

DRAIN